

Sequence Listing

<110> GuangXi University
<120> A phosphoenolpyruvate synthase gene used in plant protection
<130> FP06022
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<170> PatentIn version 3.1
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<211> 2629
<212> DNA
<213> Xanthomonas campestris pathovar campestris

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Leu Ala Gly Leu Gly Val Ser Val Pro Gly Gly Tyr Ala Thr Thr Ala
35 40 45

Glu Ala Phe Lys Asp Phe Ile Ala His Asn Asp Leu Ser Lys Arg Ile
50 55 60

Phe Asp Lys Leu Glu Thr Leu Asp Val Glu Asp Val Thr Ala Leu Thr
65 70 75 80

Val Ala Gly Lys Glu Ile Arg Gly Trp Val Ile Asp Ala Pro Leu Gln
85 90 95

Pro Glu Leu Asp Arg Asp Ile Arg Ser Ala Tyr Glu Lys Leu Cys Ala
100 105 110

Glu Asn Gly Gly Gly Glu Val Ala Val Ala Val Arg Ser Ser Ala Thr
115 120 125

Ala Glu Asp Leu Pro Asp Ala Ser Phe Ala Gly Gln Gln Glu Thr Phe
130 135 140

Leu Asn Val Thr Gly Ala Asp Asp Val Val His Lys Val Lys Glu Val
145 150 155 160

Phe Ala Ser Leu Tyr Asn Asp Arg Ala Ile Ala Tyr Arg Val His His
165 170 175

Gly Phe Lys His Glu Asp Val Phe Leu Ser Ala Gly Val Gln Leu Met
180 185 190

Val Arg Ser Gly Val Gly Ser Ser Gly Val Leu Phe Thr Leu Asp Thr
195 200 205

Glu Ser Gly Phe Arg Asp Val Val Phe Val Thr Ser Ser Phe Gly Leu
210 215 220

Gly Glu Met Val Val Gln Gly Ala Val Asn Pro Asp Glu Phe Tyr Val
225 230 235 240

Tyr Lys Pro Thr Leu Thr Ala Gly Lys Pro Ala Ile Leu Arg Arg Ser
245 250 255

Leu Gly Ser Lys Ala Ile Arg Met Val Tyr Ser Asp Val Pro Gly Glu
260 265 270

Arg Val Arg Ile Glu Asp Thr Pro Val Glu Leu Arg Asn Thr Phe Ser
275 280 285

Ile Ser Asp Glu Asp Val Gln Glu Leu Ser Lys Gln Ala Leu Val Ile
290 295 300

Glu Lys His Tyr Gly Arg Pro Met Asp Ile Glu Trp Ala Lys Asp Gly
305 310 315 320

Val Ser Gly Lys Leu Phe Ile Val Gln Ala Arg Pro Glu Thr Val Lys
325 330 335

Ser Arg Ser His Ala Thr Gln Ile Glu Arg Phe Ser Leu Glu Ala Lys
340 345 350

Asp Ala Lys Ile Leu Val Glu Gly Arg Ala Val Gly Ala Lys Ile Gly
355 360 365

Ser Gly Val Ala Arg Val Val Arg Ser Leu Glu Asp Met Asn Arg Val
370 375 380

Gln Ala Gly Asp Val Leu Ile Ala Asp Met Thr Asp Pro Asp Trp Glu
385 390 395 400

Pro Val Met Lys Arg Ala Ser Ala Ile Val Thr Asn Arg Gly Gly Arg
405 410 415

Thr Cys His Ala Ala Ile Ile Ala Arg Glu Leu Gly Val Pro Ala Val
420 425 430

Val Gly Ser Gly Asn Ala Thr Asp Val Ile Ser Asp Gly Gln Glu Val
435 440 445

Thr Val Ser Cys Ala Glu Gly Asp Thr Gly Phe Ile Tyr Glu Gly Leu
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Leu Pro Phe Glu Arg Thr Thr Thr Asp Leu Gly Asn Met Pro Pro Ala

465	470	475	480
Pro Leu Lys Ile Met Met Asn Val Ala Asn Pro Glu Arg Ala Phe Asp	485	490	495
Phe Gly Gln Leu Pro Asn Ala Gly Ile Gly Leu Ala Arg Leu Glu Met	500	505	510
Ile Ile Ala Ala His Ile Gly Ile His Pro Asn Ala Leu Leu Glu Tyr	515	520	525
Asp Lys Gln Asp Ala Asp Val Arg Lys Lys Ile Asp Ala Lys Ile Ala	530	535	540
Gly Tyr Gly Asp Pro Val Ser Phe Tyr Ile Asn Arg Leu Ala Glu Gly	545	550	555
Ile Ala Thr Leu Thr Ala Ser Val Ala Pro Asn Thr Val Ile Val Arg	565	570	575
Leu Ser Asp Phe Lys Ser Asn Glu Tyr Ala Asn Leu Ile Gly Gly Ser	580	585	590
Arg Tyr Glu Pro His Glu Glu Asn Pro Met Ile Gly Phe Arg Gly Ala	595	600	605
Ser Arg Tyr Val Asp Pro Ser Phe Thr Lys Ala Phe Ser Leu Glu Cys	610	615	620
Lys Ala Val Leu Lys Val Arg Asn Glu Met Gly Leu Asp Asn Leu Trp	625	630	635
Val Met Ile Pro Phe Val Arg Thr Leu Glu Glu Gly Arg Lys Val Ile	645	650	655
Glu Val Leu Glu Gln Asn Gly Leu Lys Gln Gly Glu Asn Gly Leu Lys	660	665	670
Ile Ile Met Met Cys Glu Leu Pro Ser Asn Ala Leu Leu Ala Asp Glu	675	680	685
Phe Leu Glu Ile Phe Asp Gly Phe Ser Ile Gly Ser Asn Asp Leu Thr	690	695	700
Gln Leu Thr Leu Gly Leu Asp Arg Asp Ser Ser Ile Val Ala His Leu	705	710	715
Phe Asp Glu Arg Asn Pro Ala Val Lys Lys Leu Leu Ser Met Ala Ile	725	730	735
Lys Ser Ala Arg Ala Lys Gly Lys Tyr Val Gly Ile Cys Gly Gln Gly	740	745	750
Pro Ser Asp His Pro Glu Leu Ala Glu Trp Leu Met Gln Glu Gly Ile	755	760	765
Glu Ser Val Ser Leu Asn Pro Asp Thr Val Val Asp Thr Trp Leu Arg	770	775	780

Leu Ala Lys Leu Lys Ser Glu Gly
785 790